

# NEWSLINE

Published for the employees of Lawrence Livermore National Laboratory

June 29, 2007

Vol. 32, No. 18

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## DELIVERING the science

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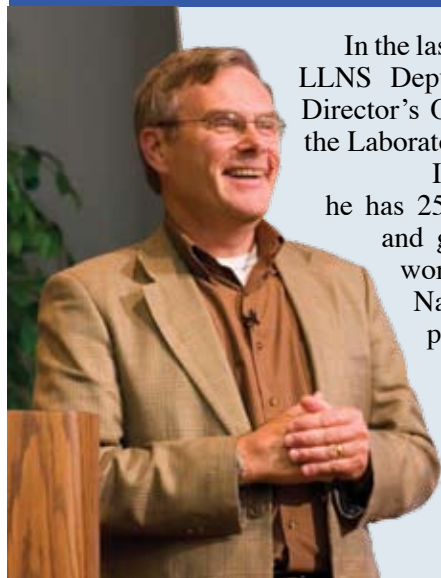


# 2007

## TRANSITION NEWS



### Steve Liedle lays out vision for effective management of the Laboratory



In the last of a series of town hall meetings Thursday, LLNS Deputy Director Steve Liedle presented the Director's Office organization that will take charge of the Laboratory Oct. 1.

In briefly introducing himself, Liedle said he has 25 years experience with Bechtel in project and general management, many of those years working on U.S. Department of Energy and National Nuclear Security Administration projects.

"One of the things I've learned over the years — sometimes painfully — is the value of teams," Liedle said. "In nearly all instances, in my experience the end result of a team effort is significantly better than those arrived at by individuals. And I've learned from George and other team

members at the Lab that this is part of the history and fabric of this Laboratory. I'm a firm believer in that concept."

The purpose of the Director's Office will be to:

- Lead — "create vision and motivate people";
- Balance — "solicit opinions that are sometimes in conflict with one another";
- Enable — "which simply means that after you get opinions you need to make decisions and where we can help you by removing burdensome requirements"; and
- Deliver.

"Put those four elements together and that's what I define as effective management," Liedle said. "That's our job, that's my job."

The director's vision for the Laboratory includes: strong mission delivery and aggressive work for others growth; leadership in Complex 2030;

*See Liedle, page 8*

### Cherry Murray wants to focus science and technology on missions



*By Anne Stark  
Newsline staff writer*

It's not a matter of whose turf it is; it's a matter of getting the job done.

That's the message Principal Associate Director Cherry Murray had Tuesday during her town hall meeting discussing the Science and Technology Principal Directorate.

During her 2 1/2-year stint as deputy director of Science and Technology, Murray said her focal point has always been science and technology and research and development.

"I focus on the business and the business of this Lab is the mission," she said. "I truly believe in the mission."

Murray said the Lab needs to be prepared for future needs while maintaining and enhancing the highest quality science, engineering and technology.

However, Murray also said it's important for scientists to have external collaborations and be members of scientific and engineering societies on the other side of the fence in the science and technology field.

"It's a public service, but it's also good for the Lab," she said.

With 4,000 people within her directorate, she said she hopes to double science program funding; increase the number of postdocs to 300 (doubling the current number); increase the number of graduate students by 50 percent; provide strong coupling to UC and Texas A&M; create a Technology Park for industrial collaborations and CRADAs; and cut the cost to sponsors by 20 percent.

"We need to have less cost to our sponsors in order to grow the science," Murray

*See S&T, page 8*

### Ed Moses looks forward to turning NIF into a national user facility



*By Bob Hirschfeld  
Newsline staff writer*

The National Ignition Facility will get a new, expanded name when the Lab's management changes hands later this year.

Beginning Oct. 1, NIF will be known as the National Ignition Facility and Photon Sciences directorate, according to Ed Moses, who will continue as principal associate director after the transition.

Moses will oversee four program areas: the NIF project; ignition and high energy density physics; target experimental systems; and photon science and applications. Their combined missions include stockpile stewardship, global security, fusion energy and basic

science.

Moses predicted that future missions in the area of photonics will be the growth engine for the directorate, and could eventually result in significant value for LLNL. The Lab will benefit, Moses said, because missions for the Department of Defense, including speed-of-light weapons, bear similarities to Department of Energy missions such as achieving fusion energy.

To measure NIF's success, Moses said, "We embrace the concept of earned value and are a milestone-driven organization."

But, he said, even more important is the safety of everyone involved with NIF. "We believe safety comes first, promotes esprit de corps, and working safely is the fastest and most effective way to reach our objectives."

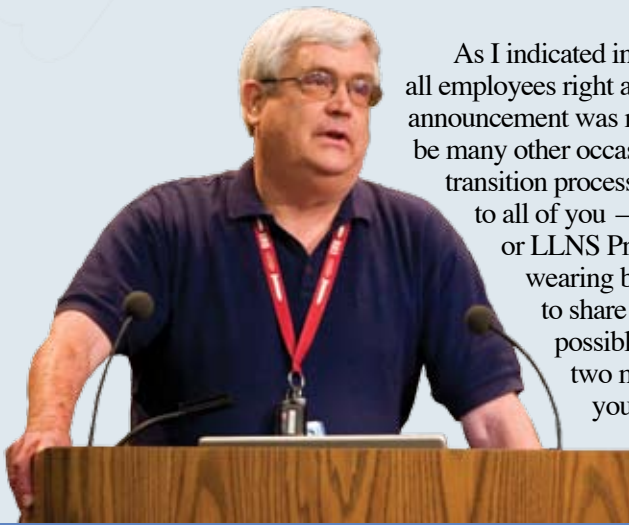
The directorate's master strategy treats the NIF project as, in Moses' words, "the anchor of what we're doing." It is now 92 percent complete with 88 of its 192 beams operational, and now can claim the title of world's highest energy laser. The project is within its budget requirements, and is on schedule for completion in mid-2009.

"But that's just the beginning," said Moses.

The second phase, which began last year, is the National Ignition Campaign (NIC). NIC's goal is to achieve ignition and research thermonuclear burn, in other

*See NIF, page 8*

## George Miller addresses employee issues and concerns about benefits



George Miller

As I indicated in my speech to all employees right after the contract announcement was made in May, there would be many other occasions throughout our transition process when I would be talking to all of you — as either Lab Director or LLNS President — and my goal wearing both of those hats would be to share as much information as possible. As you know, in the last two months, I have spoken to you under the auspices of both roles, but on Thursday, at the beginning of the town hall meeting on the Director's office, I took a few minutes to speak to you not as Lab

director or as LLNS president, but as George Miller — one employee to another — and I want to reiterate those same thoughts in a special column today.

I have said on a number of occasions that you are part of my extended family. That is why I think it is important for you to hear from me — directly — and for me to try and address the anxiety, frustration — and anger — that is being experienced as part of this transition process. I do understand to some extent what you are feeling and the fact that you are engaged and concerned is appropriate. We're talking about the future — both yours and the Laboratory's — and about our continued ability to serve our great nation.

With respect to benefits, we are in a process of employee comment as part of implementing the new contract. Based on your input, LLNS will submit a revised proposal for consideration and approval by NNSA. Until next Monday, July 2, NNSA will continue to collect your communications and take them into consideration in providing LLNS with final guidance on benefits package options. There are going to be areas where change can be affected and areas where it cannot. But your input and feedback is important and I would encourage you to continue your comments.

In my view there are three fundamental issues going on in the benefits discussion.

- Individual concerns about what's the best option to support your needs and those of your family.
- Concerns about the degree to which the "substantially equivalent to UCRP" is really in fact "substantially equivalent."
- Concerns that going to a "market based" plan where a premium is placed on

short term gains is fundamentally at odds with the goals of the Laboratory to recruit and retain the very best; where it takes many years to acquire the requisite skills and a premium is placed on the "long term view."

I share each of these concerns. I've worked at the Laboratory a long time and the current feeling of uncertainty and anxiety is hard for all of us. I am fully committed to getting you the answers you need and to preserving the fundamentals of this great laboratory — this includes hiring best in class employees to conduct and support our key missions for the nation, having a supportive work environment, and having strategically chosen missions that provide interesting challenges for our workforce.

I want you to know that I am personally engaged in the discussions about how best to meet your needs and the Laboratory's needs to recruit and retain the very best talent across the board. I have indicated to NNSA that LLNS continues to believe that this is a fundamental and very important problem. Secretary Bodman has indicated it is his wish that costs be contained in the long term while still maintaining the ability to recruit and retain the very best. LLNS believes that the country would be best served by taking the time to study the tension between the market place and its goals and the NNSA complex and its goals, more carefully. Until such a study is made, we believe that having a contract-compliant two tiered system — TCP 1 that is equivalent to UCRP and a TCP 2 that is identical to LANL — provides the Laboratory a benefits package that will allow us to continue to contribute to the country's national security. That is our goal. And we are working hard to achieve it.

I realize that many of you have individual questions on your own personal situations. We have received a number of questions along these lines. Once the final benefit plan is approved, we will have LLNS, UC and LLNL counselors who can help you with your decision. So I ask your patience right now until we get that process in place. I assure you that we will make experts available to you so that your questions can be fully addressed, and LLNS benefit personnel will be holding those questions until that time. LLNS will also hold many more town hall meetings about your benefit choices including some off-site meetings for your families and retirees.

I have also asked UCOP HR representatives to hold town hall meetings as soon as DOE approves TCP 1 and TCP2 to answer your questions about UCRP. UC will also mail a decision guide in mid-July to your home that walks all employees through the numerous choices you will have, depending on your situation.

We will get through this. It's hard — but I'm committed to this and have faith that we can meet the challenges ahead. Please feel free to send me e-mails or to copy me on your concerns. I am here to represent your interests.

## How initial benefits package rollout fits into grand scheme of transition

Listen, Learn, React.

That's been the phrase used by Lawrence Livermore National Security (LLNS) team members as part of their town hall briefings on the proposed benefits packages for Livermore employees. I know that for many employees, "listening and learning" about the proposed packages has been confusing as well as consuming. That is why I wanted to use my column this week to try to add clarity to these important transition issues and reassure you that you do not need to make a decision on your benefit choices for a while.

What LLNS rolled out last week was the "proposed" benefit package that was officially submitted to the Department of Energy/National Nuclear Security Administration for its review. The purpose of this initial rollout was to allow all employees to see the proposed plans and to offer a mechanism for comments and/or questions. (If you were unable to attend one of the benefits presentations, you may watch it via the LLNL Transition Website, at [transition.llnl.gov](http://transition.llnl.gov)) The employee comment period on the proposed benefit packages has been extended to noon Monday,



### A MESSAGE TO EMPLOYEES

— Barbara Peterson

July 2, by NNSA and LLNS. I encourage you to share your concerns and comments with NNSA and LLNS and submit clarifying questions related to the viewgraphs presented at one of the benefit town hall meetings to LLNS.

For example, one of the clarification questions LLNS is answering concerns the solvency of the pension plan under the new contract. In a white paper provided by NNSA, in the event of termination of the current contract (UC) and selection of a successor contractor (LLNS), the current contract provides for the transfer of assets to a successor plan. Consistent

with the DOE Request for Proposal, the new contractor will have the responsibility to sponsor and fund the pension plan under TCP1 as that plan is described in the Request for Proposal (RFP). Under the RFP the government also will have the obligation to reimburse the allowable costs of the employer's contributions to Pension Plan One in accordance with applicable legal requirements.

Submitting your comments on the proposal is important. You may do so by sending an e-mail to NNSA at [llnmployeebenefits@doeal.gov](mailto:llnmployeebenefits@doeal.gov) or to LLNS at [www.llnslc.com](http://www.llnslc.com). To date, NNSA reports that more than 400 emails have been received. The LLNS questions and answer website has more than 1,000 questions from employees in less than one week.

You may have noticed that our LLNL transition website directly links you to the LLNS question process. This is to facilitate the employee comment period on the benefits package. After the comment period, we will resume the ability for employees to direct their questions to both LLNS and LLNL. Another mechanism for questions is the LLNS hotline. To date,

See *TRANSITION* page 8



## SCIENCE NEWS

## World class computing delivers to programs

By Don Johnston  
Newsline staff writer

**T**he BlueGene/L supercomputer at the Laboratory topped the list of the world's fastest computers for a record sixth straight time, according to the new Top500 list released Wednesday at the International Supercomputing Conference in Dresden, Germany.

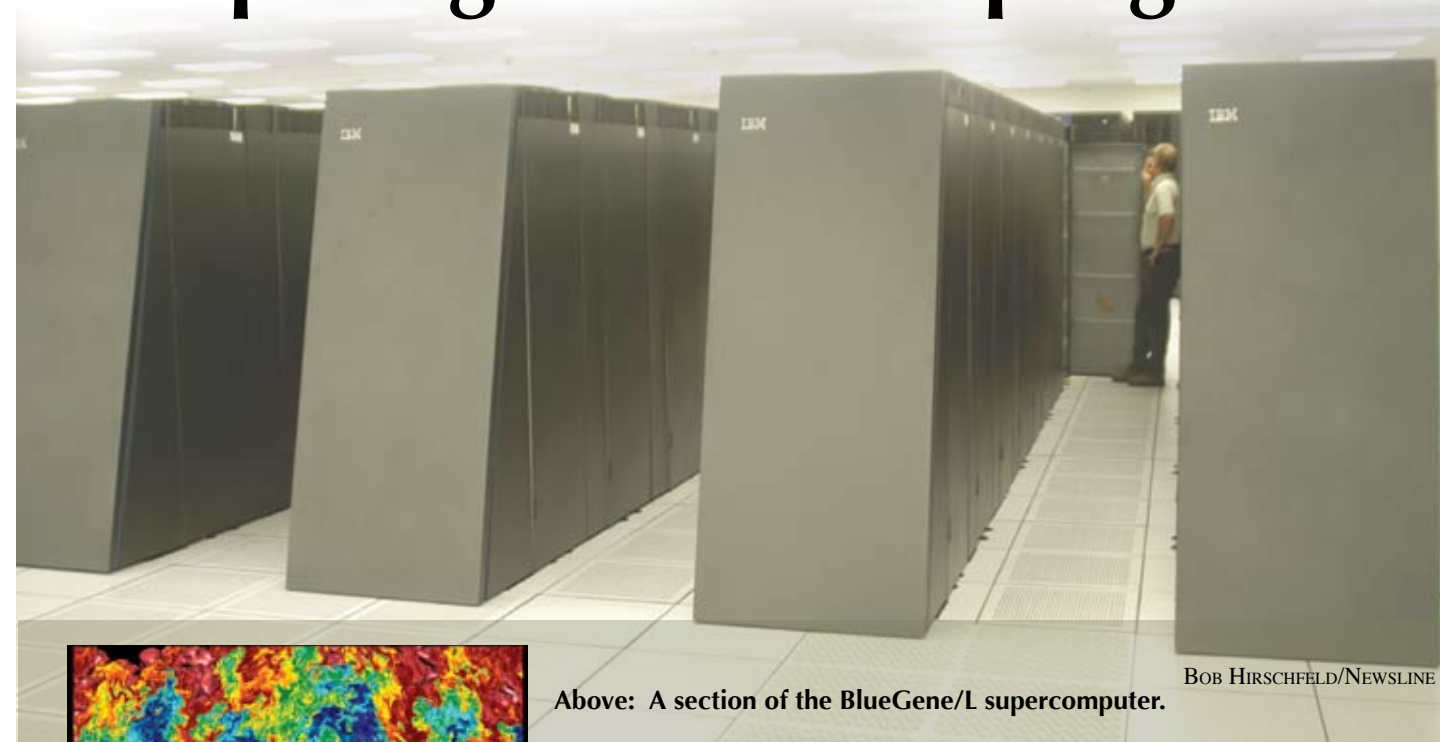
Built by IBM, BlueGene/L (BG/L) clocks in at 280.6 teraFLOPS (trillion floating operations per second) on the LINPACK, the industry standard for supercomputer performance. BGL is a workhorse machine for NNSA's Advanced Simulation and Computing (ASC) program, a cornerstone of stockpile stewardship.

The Livermore ASC program's 100 teraFLOP Purple system, another IBM machine housed in LLNL's Terascale Simulation Facility (TSF), dropped from fourth to sixth on the Top500 list.

"Since BG/L went into production in early 2006 it has performed beyond our expectations and delivered for the ASC program. BG/L's architecture has proven suitable for a much broader range of applications than originally envisioned," said Dona Crawford, associate director for Computation. "Likewise, ASC Purple also has demonstrated the system's ability to deliver weapons simulations of unprecedented spatial resolution for the Stockpile Stewardship Program."

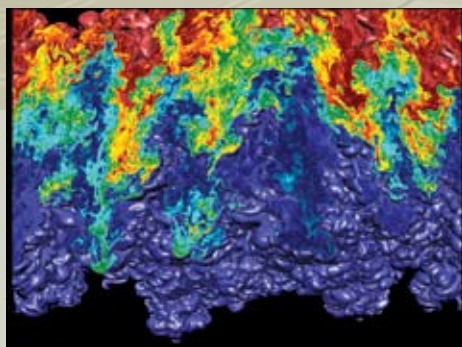
The detailed computer simulations of nuclear weapons performance produced by the ASC program using BG/L, ASC Purple and other supercomputers at the three nuclear weapons labs are critical to understanding the science of stockpile stewardship. ASC is a tri-lab program uniting the high performance computing expertise of NNSA's Los Alamos, Lawrence Livermore and Sandia national labs.

BG/L's three year reign as the world's fastest supercomputer has seen significant progress in code development and the achievement of numerous milestones for NNSA's stockpile stewardship program. For example, simulations on BGL helped answer critical questions about plutonium aging — a key to understanding the life expectancy of nuclear weapons systems. Breakthrough calculations/simulations run on the machine have over the last two years garnered three Gordon



BOB HIRSCHFELD/NEWSLINE

Above: A section of the BlueGene/L supercomputer.



Left: The Rayleigh-Taylor instability occurs when a light fluid is accelerated into a heavy fluid, and is a fundamental fluid-mixing mechanism that is important to inertial confinement fusion applications. LLNL has employed the MIRANDA code to conduct several very large simulations of Rayleigh-Taylor flows. These large-eddy simulations have achieved unprecedented development in the flow, including observations of a mixing transition and early stages of what is likely the first simulation of the truly asymptotic behavior of the instability.

Bell Prizes, widely regarded in the computing community as the Oscars of high performance computing.

Simulations on BG/L of high explosives, super-ionic water, and graphite to diamond experiments have provided scientific insights and/or confirmed results of earlier physical experiments. Livermore scientists used BG/L to perform the first instability simulation with a Reynolds number large enough to determine the nature of turbulence beyond the mixing transition, a feat which made the cover of *Nature Physics* magazine in August 2006.

In June 2006, BGL set a new world mark for a scientific application with a sustained performance of 207.3 teraFLOPS on the "Qbox" computer code for conducting materials science simulations. This represents a leap forward in scientists' capability to perform predictive simulations of large, complex high-Z metals relevant to stockpile science and was awarded the 2006 Gordon Bell Prize for peak performance.

ASC Purple played an important role in the development of the Livermore team's Reliable Replacement Warhead (RRW) design which was selected by NNSA in a competition to design a replacement warhead for a portion of the country's nuclear weapons stockpile. The modern design

of RRW is needed to ensure the long-term reliability and increase the security and safety of the stockpile without underground nuclear testing.

In January and February of 2006, a joint team of scientists from Lawrence Livermore and Los Alamos national labs performed a series of weapon simulations at unprecedented spatial resolution, utilizing the most advanced ASC simulation software. These simulations point to phenomena not seen at lower spatial resolutions and give new insight into weapons physics. Such detailed modeling was not practical on any previous computer architecture due to both time and memory constraints. But Purple, and its successors, will enable significant enhancements in both understanding and weapon simulation capability.

Department of Energy (DOE) systems also hold the number two and three rankings on the list: the upgraded Cray XT4/XT3 at DOE's Oak Ridge National Laboratory, ranked No. 2 with a benchmark performance of 101.7 TFlop/s; and Sandia National Laboratory's Cray Red Storm system, which ranked third at 101.4 TFlop/s. DOE and NNSA laboratories house the four world's fastest supercomputers.

Appearing for the first time at No.19 on the Top500 list with 36.53 teraFLOP/s on Linpack is another

Livermore machine dubbed Atlas, a 44.2 teraFLOP/s peak system dedicated to unclassified scientific computing through LLNL's Multi-programmatic and Institutional Computing program.

Atlas is doing the heavy lifting for "Grand Challenge" science collaborations in fields ranging from climate and earthquake simulations to astrophysics, chemistry, materials and bioscience. Grand Challenge allocations of time on Atlas are made available to science projects vital to DOE, NNSA and LLNL missions. Atlas is a Linux cluster built by the Milpitas-based company Appro.

The Top500 list is updated and released twice a year — at the June International Supercomputing Conference (ISC) in Germany and at the November Supercomputing Conference (SC) held at different locations in the United States.

On the cover: A simulation on the Lab's high-performance computers.



Credit:  
Computation  
Directorate  
Annual Report  
/TID staff



## SCIENCE NEWS

# Lab to lead new bioenergy research center

Secretary of Energy Samuel Bodman announced Tuesday that a partnership of three national laboratories, including LLNL, and three research universities in the San Francisco Bay Area has been chosen to host one of three bioenergy research centers, funded by the Department of Energy through its Biological and Environmental Research Genomics:GTL research program in the Office of Science. This new center will be known as the DOE Joint BioEnergy Institute (JBEI) and is expected to receive \$125 million in DOE funding over five years.

The DOE JBEI's six partners are the Lawrence Berkeley National Laboratory, Sandia National Laboratories, LLNL, the UC campuses of Berkeley and Davis, and Stanford University. Plans call for the DOE JBEI to be headquartered in a leased building in the East Bay, central to all partners. Initial work will take place at the West Berkeley Biocenter on Potter Street in Berkeley.

The other two DOE BioEnergy Research Centers are the DOE BioEnergy Research Center, led by the Oak Ridge National Laboratory and the DOE Great Lakes BioEnergy Research Center, led by the University of Wisconsin in Madison, in close collaboration with Michigan State University.

"These centers will provide the transformational science needed for bioenergy breakthroughs to advance President Bush's goal of making cellulosic ethanol cost-competitive with gasoline by 2012, and assist in reducing America's gasoline consumption by 20 percent in 10 years," Bodman said. "The collaborations of academic, corporate, and national laboratory researchers represented by these centers are truly impressive and I am very encouraged by the potential they hold for advancing America's energy security."

Research at the DOE JBEI will focus on biofuels — liquid fuels derived from the solar energy stored in plant biomass. Harnessing even a tiny fraction of the total solar energy available each year could meet much of the nation's annual transportation energy needs.

"Together with our academic and national laboratory partners, DOE JBEI gives Livermore the opportunity to use its expertise in microbial systems biology, and its unique diagnostic and imaging capabilities to help crack one of the nation's biggest objectives: developing alternative fuels and sustainable energy," said Cherry Murray, deputy director of Science and Technology at LLNL.

LLNL is an active partner in DOE JBEI, applying selected S&T capabilities to support the basic science carried out by the other partners. In particular, Livermore's Microbial Systems group will conduct experiments in collaboration with researchers at UC Davis to look for new lignocellulose-degrading enzymes in natural microbial communities found in compost. LLNL researchers will also use their expertise in computational biology to analyze regulatory networks in microbial communities that effectively process lignocellulosic biomass. These networks will be derived from metagenomic



GORDON YANO/PAO

**Top: Henry Shaw, left, acting group leader for the Microbial Systems Biology Group in the Chemistry, Materials & Life Sciences directorate, joined a press conference at the Berkeley West Biocenter on Tuesday as part of the official announcement of the new DOE Joint BioEnergy Institute. The press conference included tours of the Biocenter laboratories, where work will begin on the new JBEI research initiative. Left: Shaw also visited laboratories at the Berkeley West Biocenter.**



sequencing data produced by the DOE Joint Genome Institute in Walnut Creek. Finally, LLNL will undertake studies of the genetics and metabolism of microbes that produce long-chain hydrocarbons to explore the possibility of developing practical sources of non-ethanol liquid fuels.

In the area of technology, Livermore will use its imaging capabilities to help understand cell wall structure and changes that occur as a function of various pre-treatment regimens during feedstock deconstruction. Of particular interest are LLNL's secondary ion mass spectrometry, or SIMS, imaging capabilities, which include both Time-of-Flight (ToF) mass spectroscopy and NanoSIMS. These instruments can provide elemental, isotopic, and molecular information on samples at length scales less than 100 nanometers, or about 1/10 the diameter of a typical microbe. Atomic force microscopy (AFM) is another established expertise at the Lab, and will be used to provide visual insight into cell wall structure and degradation; Livermore recently combined a state-of-the-art AFM with a state-of-

the-art laser fluorescent confocal microscope. This new platform will allow simultaneous, near-real-time AFM and optical imaging of samples that contain fluorophores.

In addition, the Center for Accelerator Mass Spectrometry (CAMS) will provide accelerator-based isotope measurements and ion-beam microbe analysis. Working with the Combustion Research Facility at Sandia, Livermore, researchers at CAMS have used Carbon-14-labeled fuel oxygenates to elucidate fuel combustion mechanisms. Similar work will be done for JBEI to characterize any new fuels whose combustion characteristics have not previously been characterized.

Finally, the Livermore MicroArray Center or LMAC will be used to rapidly synthesize DNA-based microarrays and perform subsequent analyses providing data relating to gene expression. LMAC is unique because it has one of two Maskless Array Synthesizers (MAS) in the country not under the control of NimbleGen Corporation. MAS chemistry uses novel photo-deprotection chemistry enabling high-density DNA probe synthesis. This photo-deprotection chemistry can potentially be applied to carbohydrate array synthesis useful for understanding enzymes associated with plant cell wall degradation.

"The selection of the DOE JBEI is a major vote of confidence in the Bay Area's growing leadership in the national effort to develop new and cleaner sources of renewable energy," said Jay Keasling, director of LBL's Physical Biosciences Division and a UC Berkeley professor of chemical engineering, who has been designated as the DOE JBEI's chief executive officer.



i.want ads

Due to the high quantity of ads and space limitations, these want ads have been abbreviated. For the complete ad listings, refer to the internal Website: <http://www-r.llnl.gov/pao/news/wantads.html> or for the latest pdf download and retiree information, see the external Website: <http://www.llnl.gov/pao/employee/>. Please note that these ads appear on the Web.  
**Date of ads: Approx. June 19 to June 26. Ads appear on the Web for seven days.**

**AUTOMOBILES**

96 Mercury Marquis. \$6,000. 56,000 mi, ex cond. 925-443-2866

1980 Fiero. \$2,200. 99,000 original miles. Great shape. Silver with sunroof 209-649-2823

1990 Corvette. \$7,500. Black, 5.7 Liter, automatic, 68K miles. 925-449-7651

1992 Lexus LS400. \$7,900. Ex-conditon, new A/C, new tires, new suspension, 209-518-2156

1999 Subaru Outback AWD. White. \$6000 OBO. Gray interior in excellent cond. 510-207-2258

2000 Ford Tarus SEL. \$5,765. Dark maroon/brown, full leather interior, air bags, 925-938-4136

2000 Subaru Outback Limited Edition. \$8900. Excellent condition, 925.371.1854

2002 GMC Yukon XL. \$15,700 OBO. Royal blue exterior and gray interior 925-584-1612

2005 Honda Accord LX. \$14,500. Mint condition, great commuter car. 925-584-1612

2006 Chevy Silverado. BO. Crew cab short bed, ¾ ton, 8.1 liter gas engine, 634-5851

Chevrolet Equinox 2005. \$15,800. Mileage: 26K (10K left on factory warranty), 209-599-0922

Used tires. \$400. Used 17" stock wheels and cooper tires from Ford Expedition. 209-402-6245

**BICYCLES**

Toddler-sized Mongoose bicycle. \$30. Looks like a dirt bike, 12.5 inch wheels, 925-373-6833

**BOATS**

2005 Reinell power boat, mint condition. \$20,500. Like new. (White and blue). 925-584-1612

Canoe. \$250. 16’ Coleman canoe; green fiberglass with square back. 925-449-0463

Paddle Boat. \$450 OBO. 132lbs/800lbs capacity. 925-516-8925

**ELECTRONIC EQUIPMENT**

Stereo Turntable Connoisseur. Good Condition - \$30 obo 846-8394

**GIVEAWAY**

Men’s bike. Livermore. 925-449-0611

PAMI pebbles For exposed aggregate concrete. Mixture of burgundy, tan, blue-925-455-5575

**HOUSEHOLD**

3 pc. leather couch set. \$800. 1 loveseat, 2 oversized chairs, all black. 925-709-1794

Baby Bjorn midnight blue carrier. \$50. Like new. 925-876-5188

Bedding \$25. Extra long twin sheets, 2 sets. Twin comforter, navy/light blue. 925-455-8238

Cal King mattress. \$200 obo. Serta Grand Sonata brand. Only used 1 year, like new. 925-443-4741

Computer cart. \$30. By Bush black melamine with Rosewood trim piece 510-653-1017

Crib and high chair. \$35 maple, new mattress. Not suitable for infants. 925-455-9329

Custom cherry stereo/TV cabinet. With 2 pullout drawers- 49”w x 27”d x 29”h. 846-8394

Day bed and trundle. \$500. Black wrought Iron. Becomes king size with trundle. 925-640-1806

White-wash colored entertainment center. \$250 OBO. Oak bedrm armoire- \$75 OBO, in-step double jogging stroller-\$50, Sauder computer desk-\$30 OBO, 2 seat child bike trailer-\$40. 209-832-4576

Humidifer. \$15 1 gallon in shape of basketball or soccer ball. 925-648-0671

Loft bed or dorm room setup. \$650. Gorgeous, rootbeer lacquered loft bed with desk/computer area, (209) 845-0699

Nearly new Toro Lawnboy mower/ mulcher. \$250. 510-455-0939

Nordic Track. \$30 This classic exercise machine has a built in heart monitor. 510-455-0939

Oak clawfoot dining table. \$50 OBO. Needs a little TLC, no leaves or chairs, 530-251-3685

Oak dining room set. \$500. Formal with hutch and buffet. 6 chairs and 2 leaves. 925-362-8796

Playtex diaper genie. \$5. Good used condition. 925-876-5188

Sony Psyclone Nodus sound experience. \$60. PlayStation portable, 925-648-0671

Wood chipper/shredder. \$550.Troy-Bilt, 925-606-6954

**LOST AND FOUND**

Found: Memory Stick in parking lot in front of Bldg. 111. Found Friday, June 22 925-422-5214

Lost -- black binder with passport Lost in either Bldg. 319, 141, or while biking between the two: 850-694-3117

Lost neckace. About badge length, brown cord with metal fish attached. 925-600-1817

**MISCELLANEOUS**

14K gold men’s wedding band. \$190. Size 12. 209-830-9109

Aviators wanted. New LLESA group for pilots, (especially those not current) 925-323-8223

Baby item. \$20. Baby Bjorn front carrier for babies. 925-373-6833

Chipper-shredder. \$50. Roto-Hoe. TB-5. Briggs and Straton. 5HP motor. 925-215-1618

Cranium Pop 5 game. \$18. For adults. Paid \$27 plus tax. New in unopened box. 925-648-0671

Fisher Price aquarium infant Swing. \$40. 6 speeds, music, lights, 925-487-8506

Garage sale: household, sporting, skiing, bicycle, construction materials; Saturday 6/23; call for address. 925-443-3106

Garage sale. Sunday, July 1, 7 a.m.-4 p.m. 1806 Bluebell Drive (Springtown) 925-784-1291

Giant gumball machine. \$475 OBO. 925-516-8925

Great America tickets 2 tkts. for Great America, reasonable 925-735-6002

Hand-Quilter II system. \$650. Frame and carriage system. 925-455-0574

Kelty Kids ELITE Carrier for hiking. \$50. Almost brand new. 925-373-6833

Interior/exterior trim. \$1 ft. Interior casing 2 1/4 and 3 1/4. Exterior trim 2x6, 1x4, 2x4, and 1x6. All new 925-998-9372

Ladder. \$40. 8’ Aluminum stepladder Keller 928 type II 225 lb rating 510-653-1017

Leather briefcase. Scully Italia woman’s. Excellent condition - never used. \$25 obo 846-8394

Little Tikes slide/climber/playhouse/gym. \$20. 209-599-0922

DVD set. \$125 Star Trek Next Generation. Seasons 1-7, 209-823 0641

Polly Pocket sets with accessories (purses, shoes, etc) and pets (dogs, cats, etc.). 925-980-3121

Ruby and diamond ring. \$300 OBO. Ladies gold ring 925-876-5188

Safeline Sit n Stroll 5-in-1 sar seat stroller. \$120. Like new with extras. 209-836-3041

Ticket to Los Lonely Boys Concert. \$50. concert at Wente on Aug. 16. 846-3278

Wood chipper/shredder \$550. Troy-Bilt 8HP 925-606-6954

Yard sale. Multi-family June 29-30. All proceeds will help cover medical expenses for a 9-year-old girl with cystic fibrosis. 849 Hanover St. in Livermore. 925-454-8827

**MOTORCYCLES**

2004 HD Softail Deuce. \$15,888. Vivid black w/lots of chrome and extras. Must sell. 925-382-1432

2003 Kawasaki ninja 500. \$4,000. Low miles, one owner. 530-917-7514

2006 KTM Supermoto motorcycle. \$7,400. 2500 miles. Street legal. 50 mpg. 209-985-8961

**MUSICAL INSTRUMENTS**

Piano. \$2,500 OBO. 1903 Chickering upright. Recently serviced and tuned. 925-634-9973

1906 Baby Grand. \$600. Needs refinishing. Appraised for \$800. 925-373-7579

**PETS**

Aquarium \$400/BO. 37 gallon aquarium w/credenza, filter and cover. 209-839-0872

Two red-tailed boas. \$1,000/OBO. Plus snake cage. 925-443-1813

Siamese cat that has been declawed

and is a house cat. Quite sociable with people. 925-484-3889

**RECREATION EQUIPMENT**

2 jet ski’s. \$1,800. 1993 Kawasaki 550 and 1992 Kawasaki 440 stand-ups. Dual trailer comes with them. 209-649-2823

Batting aid. \$30. Quick swing batting aid, for ages 7 and up. 925-648-0671

Brand new 2007 Burton Titan travel golf cover. \$50 OBO. 925-829-9443

Duck/goose decoys. \$250. 209-823-1111

New Ben Hogan Big Ben Putter with magnetic head cover. \$50 OBO. 925-829-9443

Nordic Track. \$20. Cross country ski exercise machine. Works well. 925-443-9830

Women’s golf clubs. \$75. Wilson Pro Staff irons. 4-PW graphite, Adams stand bag, 443-6603

**RIDESHARING**

Patterson Vanpool. \$160./mo. Van runs 5 days a week, work hours M-Th. 7 a.m.- 4:30 p.m., Friday 7 a.m. - 3:30 p.m. Meet at Jack in the Box in Patterson. 209-895-4447

Ride share from Tracy. Wanted Ride Share or Carpool from Tracy 9/80 crew start time 6:30 a.m. 209-338-8869

Vanpool. Immediate openings available. 14-passenger vanpool orignating with stops in Modesto and Ripon. 8 a.m.- 4:45 p.m. Ext. 2-2727 209-544-6411

**SHARED HOUSING**

Laboratory summer intern needs housing from July 2 to Aug. 25. Please call 850-459-0375.

Female roommate for Pleasanton apartment. \$710. Large bedroom & private bath 510-409-4002

House exchange: Livermore for Kihei, Maui Available: 8/1/2007 808-283-8239

Room 4 Rent. \$700 + 350. Nice size room with private bathroom. Gated community. 510 3643281

Room for rent. \$650. Fully furnished apt w/all amenities. 1 925-784-3184

Room for rent near Mills. Available 8/1/07. \$650. Looking for roommate to share charming 2/1 home l 5 minutes from Mills College. 925-487-2051

Room for rent: Pleasanton. \$775/ month. 925-846-5763(H); 925-209-8778(C) 925-736-9009

**TRAILERS**

1995 Big Tex. \$1,600. Utility trailer, 16’ w/tandem axle and electric brakes. Newly refurbished; excellent condition. 925-447-6784

**TRUCKS**

06 Toyota Tacoma. \$15,850. Prerunner

SR5, 4 CYL, 5 Spd, A/C, power steering , 209-914-0827

1985 Toyota pickup. \$1,900. Long. 22R engine, 5SP transmission, 925-371-1854

1998 DODGE 1500 QUAD CAB 4X4. \$9800. With lots of options 925-876-5588

1999 Ford. \$7,500. White/excellent condition. 925-735-6002

2002 F150 XLT Supercab Shortbed – LOADED. \$14,000. 925-371-8111

2002 GMC 4X4 PU. \$16,000 OBO. Z71. 209-832-5462

2004 Dodge Ram 2500 4x4 SLT truck. \$27,000. Heavy duty turbo diesel. 925-216-4438

**VACATION RENTALS**

Arnold area mountain home. cozy 4 bdrm, 2 bath 1,600 sq. ft. mountain home. 925-245-1114

Kona Big Island, Hawaii, vacation home. Large fully-furnished home 415-377-5361

MAUI - house exchange. Live on Maui for a year - fully furnished home in Kihei. 925-422-2578

Maui, HI, Kahana Reef oceanfront 1BR/ 1BA condominium. 925 449 0761

Mountain cabin. \$225/wknd. Pinecrest Lake area, off Sonora Pass Rd., 925-449-5513

Santa Cruz Beach House. 2 bedr, 2 bath, spa, fully loaded kitchen. 925-245-1114

South Lake Tahoe chalet. 3 bedroom 2 bath chalet, nicely furnished, 209-599-4644

South Lake Tahoe rental. \$650/wk. South Lake Tahoe cabin for rent. Sleeps approx. 7. Pets welcome 925-556-9511

Wine country rental \$150/night. Monte Rio. - 925-513-4767

**WANTED**

Used X Box 360. 209-914-2132

Single wheel trailer Reasonable price. Need a small trailer, max. 4’X8’ size, 925-785-4680

Chrome 5 lug Chevy wheels wanted. 2 EA chrome wheel’s, 15 X 8 Inch -- 209-338-8869

Golf clubs. Looking for inexpensive starter set of men’s clubs. 925-426-0721

Housekeeper in my Livermore home. Once a month, flexible days. 925-443-7422

Lava rock Looking for lava rock for pond filter. 510-557-3951

Moving boxes needed. 209-747-0886

Patio table and chairs wanted. Garden patio table with six chairs preferred. 925-443-1673

Looking for roofer that will inspect tile roof; no leaks yet, just checking. 925-735-6002

Wanted. Small car wanted for a college student; automatic, at reasonable price. 209-531-1527



## Lab employees launch local chapter of Institute of Nuclear Materials Management

A group from the Lab has established the California Chapter of the Institute of Nuclear Materials Management (INMM) and employees involved in aspects of nuclear materials management are invited to participate.

The INMM, is an international professional society that provides a forum for interacting with leaders on nuclear materials management in industry, government, academia and international organizations. Its goals are to advance the field, promote research, establish standards, improve qualifications of professionals and disseminate information worldwide.

Organizers of the California chapter from the Lab's Nonproliferation, Homeland and International Security Directorate (NHI) include: Mona Dreicer (president); Rusty Babcock (vice president); and Greg White (secretary and treasurer).

The goals of the new chapter are to promote the INMM purpose in the geographical area; sponsor, organize and host chapter meetings and topical workshops; and increase the dialogue with students and teachers at local schools and universities on nuclear material management issues.

"The Lab is a key player in the area of nuclear materials management. Establishing a Livermore Lab-affiliated chapter of the INMM will promote opportunities for

members to discuss cross-cutting issues across Lab directorates, increase interactions with universities in the area and attract students to careers; and bring an international perspective of the field." Babcock said. "It also will bring the Laboratory visibility as a leader in nuclear material management. We are very excited to start this new chapter."

Membership in the California chapter is open to members of the national INMM. Associate membership is open to anyone interested in the INMM California chapter, but not restricted to Lab employees. Individuals from SNL-California, UC, and local area industry and businesses are welcome.

The California Chapter of the INMM is organizing a seminar series from 11 a.m. to noon the third Tuesday of every other month in Bldg. 132 South, room 1755.

The first seminar is scheduled for July 17 and will feature the lecture, "Historical Perspective on the Russian Material Protection Control and Accounting Program." The speaker is Mike O'Brien. Planned future topics are: "GNEP Issues: Assured Fuel Supply and Spent Fuel Take-back," "Pu Detection for Treaty Verification," "IAEA — Safeguards — the Evolution of Strengthened Safeguards," and "Export Controls on Transfer of Sensitive Technology."

For more information about the INMM, go to the Web at <http://www.inmm.org>.

For more information about the California Chapter, go to the Web at <http://www.inmm-ca.org> or contact Rusty Babcock at [babcock4@llnl.gov](mailto:babcock4@llnl.gov).

## PEOPLE NEWS

### IN MEMORIAM

#### John Willard Mahan

John Willard Mahan of Atwater died May 11. He was 65.

Mahan was born in Neosho, Mo. on May 13, 1941. Before moving to Atwater, he lived in Tracy from 1960 to 2000. While living in Tracy he worked for the Laboratory as a maintenance supervisor at Site 300. He was a past president of the California Classic Truck Club and a lifetime member of the National Rifle Association. His hobbies included woodworking, coin collecting and camping.

Mahan is survived by his wife of 43 years, Sally Mahan; son,

Michael Allen Mahan of Merced; brother, Darrel Mahan of Neosho; mother, Nellie Mahan of Neosho; and grandchildren, Jack and Kaitlyn of Lubbock, Texas. He was preceded in death by his son, John David Mahan; and father, Herman Mahan.

Memorial services will be announced at a later date. Donations in his name may be made to the Hospice of San Joaquin, 3888 Pacific Ave., in Stockton, or to the American Cancer Society, P.O. Box 22718, Oklahoma City, OK 73123-1718.

#### Leslie (Bills) Villasenor

Leslie (Bills) Villasenor, a Lab retiree and resident of Brentwood died June 25. She was 61.

Born July 12, 1945 in Huntington Park, Calif., she attended Clayton Valley High School in Concord. She was the oldest of five children, and the only daughter of Adelbert and Genevieve Priddy.

Villasenor began working at the Lab in 1994 in the Travel Accounting and the Finance Department.

She became an administrative specialist for the CASC Division of the CAR Department in Computation in 1998 and retired in March. She enjoyed dancing, reading, shopping at garage sales and thrift shops, collecting needlepoint, crocheted and embroidered items and oil painted pictures. She was an active member of the Del Valle Chapter of Parents Without Partners where she also

served on the board.

Villasenor is survived by her husband Tino Villasenor of Brentwood; her mother Genevieve of Apple Valley, Calif.; her aunt Phyllis Cooper of San Jose; her son and daughter-in-law William and Michele Sofield of Sanger, Texas; daughter Beth (Sofield) Burns of Roseburg, Ore.; five grandchildren; two step-sons; brothers Larry of Hayward; Martin and Russell of San Bernadino; and Hugh of Los Angeles. She was preceded in death by her father four years ago.

A celebration of her life is planned at her home in Brentwood on June 30 at 11 a.m.. Those who are interested in attending and need directions may call 925-240-6311. Donations may be made in Villasenor's name to the American Cancer Society.

## NEWSLINE

Newsline editor: Don Johnston, 3-4902

Newsline is published bi-weekly by the Public Affairs Office, Lawrence Livermore National Laboratory (LLNL), for Laboratory employees and retirees.

**Public Affairs Office:** L-797 (Trailer 6527), LLNL, P.O. Box 808, Livermore, CA 94551-0808  
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**Web site:** <http://www.llnl.gov/pao/>  
**Distribution:** Mail Services at LLNL

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For an extended list of Lab beats and contacts, see <http://www.llnl.gov/pao/contact/>



## TRANSITION UPDATES

### *Liedle, continued from page 2*

enhancement of business and operational performance; and fostering exceptional science and technology that anticipates, innovates and delivers, according to Liedle. "We're a mission-centered organization."

He went on to discuss some of the functions that would come under the new Director's Office including Environment, Safety, Health & Quality (ESH&Q), security, corporate office, contractor assurance, continuous improvement, Lab counsel, finance, information management, external relations and communications, planning and special studies and senior advisers.

ESH&Q and security have been brought into the Director's Office because "they are LLNS values and they can impact mission delivery and can slow down mission work if not done properly," Liedle said.

The new ESH&Q organization, to be led by Allen Macenski, will regroup safety training and information; health services; hazards control; environmental compliance and quality assurance.

Liedle explained how the director's office would interact with the Board of Governors, a new element from the current system. The board is made up of representatives from the parent LLNS companies and prestigious outside advisory members. "That board has already indicated to us that they will be very active in helping us improve the performance of the Laboratory."

The system to be used for collecting and processing performance data will be a Contractor Assurance System or CAS, Liedle said. "A very important concept of this contract assurance system is that it is owned by line management. The Director's Office will provide the infrastructure and training but the actual use is line-management driven. That's where the power of a system like this lies."

"This system is to be certified every year by the LLNS Board of Governors," he said.

Other new elements of the Director's Office include:

- The LLNS corporate office, which will serve as a conduit between the Board of Governors and the Laboratory, will be located in downtown

Livermore, Liedle said.

- The newly titled office of External Relations/Communications will group together the congressional liaison, Public Affairs and Protocol "to provide consistency of message and communication both internally and externally," he said.
  - Information Management will consist of what is now the Chief Information Officer along with the addition of a Chief Information Adviser, who will look to other outside organizations such as Los Alamos for information management solutions and launch modernization initiatives.
- "The idea is to improve service and reduce costs to enable us to do more science and mission work," Liedle said.

In conclusion, Liedle said his job is "to continue to listen and learn."

"I'm really impressed with the people we have here and the work that you do. How great it is to be a part of an organization that will help define the next frontier in science," Liedle said. "I'm truly thrilled."

### *S&T, continued from page 2*

said. "Cutting costs by 20 percent is not going to be easy. We need to pool our resources instead of going off and doing something 20 different ways."

Under the new principal directorate, Earth and Environmental Sciences will move to Chemistry, Atmospheric, Materials, Earth and Life Sciences or "the CAMELS directorate" as Murray jokingly referred to it. Tomas Diaz de la Rubia, current associate director of CMLS, will keep that directorate. Physical Sciences will

be led by current Physics and Advanced Technologies Associate Director Bill Goldstein. Computation will be led by current Computation Associate Director Dona Crawford. And Engineering will be led by current Associate Director Steve Patterson.

While some of the key management personnel will remain the same under Lawrence Livermore National Security, LLC (LLNS) management, there also will be other areas included in the new principal directorate.

For example, industrial partnerships and university partnerships will now fall under S&T.

"We need to be prepared for any contingency," Murray

said. "We should focus on the future with the best business practices in mind but also maintaining a safe and secure work environment."

Murray said most scientists within her principal directorate will also be matrixed to programs, either in Weapons and Complex Integration, NIF and Photon Sciences or the new Global Security Principal Directorate.

"That way you get the best scientists working on the programs and you get renewed," she said. "I don't believe in turf. It's more where the work best gets done. However, I do believe in the ability of people to move with a project. I say 'It's your baby, you see it through.'"

### *NIF, continued from page 2*

words, the "I" in NIF.

NIF's ultimate function is as a national user facility, bringing together researchers from throughout the United States as well as leading scientific institutions around the world, comparable in scope to CERN, the Chandra X-ray Observatory, the Advanced Photon Source and the Stanford Linear Accelerator.

In addition to its work related to national security, Moses said NIF will be able to conduct experiments related to the physics of the universe, including star life cycles, planetary system formation, element formation in stars, and potentially the chemistry of life. "NIF can be a premier international center for experimental science," said Moses.

In addition to the NIF project, the directorate also

is responsible for several other important laser research missions, collectively grouped as Photon Science and Applications (PS&A.)

These include the Mercury laser, used to study advanced fusion energy technologies, as well as the Solid State Heat Capacity laser, which has military applications.

But for the future, Moses looks for major developments in increasing laser capabilities by a factor of a thousand. For example, he hopes the Lab can develop technologies to improve average laser power from kilowatts to megawatts, peak power from petawatts to exawatts, and photon energy from kilovolts to megavolts.

In terms of personnel, the NIF directorate is the smallest at LLNL. But Moses said, "We use the matrix nature of the Laboratory very effectively," and so there are actually about 1,200 people who perform work on

NIF's behalf from other directorates, including Physics and Advanced Technologies, Computation, Chemistry, Engineering and other support organizations.

"If you look at where the Lab is going, the NIF directorate will play an important role in all aspects of it, given the unique cross-cutting capabilities that we have and are able to utilize," said Moses.

### *TRANSITION, continued from page 3*

they report that more than 300 calls have been received. The hotline is staffed from 7:30 a.m. to 6:30 p.m. Monday through Friday, and you may leave a message after-hours. The phone number is 4-LLNS or 424-5567.

Based on employee feedback, LLNS will submit their revised proposal to NNSA on Tuesday, July 3. We expect NNSA will formally approve a benefit proposal plan in the coming weeks and LLNS will then roll out the final packages to all employees via a series of town-hall meetings, including after-hours meetings for families and retirees. The roll-out and communications about LLNS approved benefits package is designed to coincide with the job offer letters that all employees will receive in mid-July. You will have until mid-September or approximately 60 days to make your benefit and pension choices and to

formally accept the LLNS employment offer.

To help with your decision making process, the University of California will provide additional information on UCRP. In mid-July you will receive a booklet summarizing your current benefits and detailing the individual choices you have as you transfer to LLNS and/or retire from the UC system. UC benefit counselors also will be on-site and UC will be holding a series of town hall meetings to answer specific UC related questions. Information on dates and times will be published in *Newsline* and *NewsOnLine*, as well as the LLNL and LLNS transition websites.

I truly believe that by mid-September, when our decisions on both job offers and benefit choices are due, we all will have much more information and feel more comfortable about the individual decisions we are making. So keep Listening, Learning and Reacting, but rest assured, you do not have to make a "decision" for a while.



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